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| APPLICATION NO. | ON NO. FILING DATE    |                           | FIRST NAMED INVENTOR  | ATTORNEY DOCKET NO. | CONFIRMATION NO. |  |  |
|-----------------|-----------------------|---------------------------|-----------------------|---------------------|------------------|--|--|
| 10/700,722      | 10/700,722 11/03/2003 |                           | Sunder Rathnavelu Raj | 002489.P041         | 002489.P041 6031 |  |  |
| 30554           | 7590                  | 09/18/2006                |                       | EXAM                | EXAMINER         |  |  |
|                 |                       | AMEDI LLP<br>EK BOULEVARD | PYO, MONICA M         |                     |                  |  |  |
| SUITE 201       | ENG CREI              | LK BOOLL VARD             | ART UNIT              | PAPER NUMBER        |                  |  |  |
| SAN JOSE,       | CA 9512               | 29                        | 2161                  | 2161                |                  |  |  |

DATE MAILED: 09/18/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

|   |  | Applicat               | ion No.                                  | Applicant(s)           | <del></del> |  |  |  |  |
|---|--|------------------------|--|------------------------|-------------|--|--|--|--|
|   |  | 10/700,7               | 22                                       | RAJ, SUNDER RATHNAVELU |             |  |  |  |  |
|   | Office Action Summary  | Examine                | r  | Art Unit               |             |  |  |  |  |
|   |  | Monica N               | 1. Pyo                                   | 2161                   |             |  |  |  |  |
| The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply  |  |                        |  |                        |             |  |  |  |  |
| A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). |  |                        |  |                        |             |  |  |  |  |
| Status  |  |                        |  |                        |             |  |  |  |  |
| 1)🛛   | Responsive to communication(s) filed or  | n <u>03 November 2</u> | <u>2003</u> .                            |                        |             |  |  |  |  |
| 2a)□  | This action is <b>FINAL</b> . 2b) This action is non-final.  |                        |  |                        |             |  |  |  |  |
| 3)[   | Since this application is in condition for allowance except for formal matters, prosecution as to the merits is    |                        |  |                        |             |  |  |  |  |
|   | closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.                          |                        |  |                        |             |  |  |  |  |
| Dispositi   | on of Claims   |                        |  |                        |             |  |  |  |  |
| 4)🖂   | 4)⊠ Claim(s) <u>1-49</u> is/are pending in the application.  |                        |  |                        |             |  |  |  |  |
| ·   | 4a) Of the above claim(s) is/are withdrawn from consideration.   |                        |  |                        |             |  |  |  |  |
| 5)  | 5) Claim(s) is/are allowed.  |                        |  |                        |             |  |  |  |  |
| 6)[   | Claim(s) is/are rejected.  |                        |  |                        |             |  |  |  |  |
| 7)  | 7) Claim(s) is/are objected to.  |                        |  |                        |             |  |  |  |  |
| 8)⊠ Claim(s) <u>1-49</u> are subject to restriction and/or election requirement.  |  |                        |  |                        |             |  |  |  |  |
| Applicati   | on Papers  |                        |  |                        |             |  |  |  |  |
| 9)[   | The specification is objected to by the Ex   | caminer.               |  |                        |             |  |  |  |  |
| 10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  |  |                        |  |                        |             |  |  |  |  |
| Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).   |  |                        |  |                        |             |  |  |  |  |
| Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  |  |                        |  |                        |             |  |  |  |  |
| 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.  |  |                        |  |                        |             |  |  |  |  |
| Priority u  | ınder 35 U.S.C. § 119  |                        |  |                        |             |  |  |  |  |
| 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:  |  |                        |  |                        |             |  |  |  |  |
| -/.   | 1. Certified copies of the priority documents have been received.  |                        |  |                        |             |  |  |  |  |
|   | 2. Certified copies of the priority documents have been received in Application No                                 |                        |  |                        |             |  |  |  |  |
| 3. Copies of the certified copies of the priority documents have been received in this National Stage   |  |                        |  |                        |             |  |  |  |  |
| application from the International Bureau (PCT Rule 17.2(a)).   |  |                        |  |                        |             |  |  |  |  |
| * See the attached detailed Office action for a list of the certified copies not received.  |  |                        |  |                        |             |  |  |  |  |
|   |  |                        |  |                        |             |  |  |  |  |
| Attachmen   | t(s)   |                        |  |                        |             |  |  |  |  |
|   | e of References Cited (PTO-892)  | ).40\                  | 4) Interview Summary Paper No(s)/Mail Da |                        |             |  |  |  |  |
| 3) Inform   | e of Draftsperson's Patent Drawing Review (PTO-9 nation Disclosure Statement(s) (PTO-1449 or PTO r No(s)/Mail Date |                        | 5) Notice of Informal P 6) Other:        |                        | O-152)      |  |  |  |  |

Application/Control Number: 10/700,722 Page 2

Art Unit: 2161

## DETAILED ACTION

## Election/Restrictions

1. Restriction to one of the following inventions is required under 35 U.S.C. 121:

- I. Claims 1-29, 31-33 and 45-49, drawn to a method and an apparatus comprising receiving a text string, performing a search of a database of a stored patterns matching characters, classified in class 707, subclass 6.
- II. Claims 30 and 34-44, drawn to a method and an apparatus comprising a receiving a text string, determining a current state of a state machine and performing a comparison operation in a ternary content addressable memory (TCAM), classified in class 711, subclass 108.

The inventions are distinct, each from the other because of the following reasons:

Inventions I and II are related as subcombinations disclosed as usable together in a single combination. The subcombinations are distinct if they do not overlap in scope and are not obvious variants, and if it is shown that at least one subcombination is separately usable. In the instant case, invention I has separate utility such as a receiving and a performing methods to search a database of a stored patterns matching one or more characters of the text string using a state machine; invention II has a separate utility such as a ternary content addressable memory (TCAM) comprising a first, a second, a third, and a fourth fields to store a current state of a state machine. See MPEP § 806.05(d).

2. Because these inventions are independent or distinct for the reasons given above and have acquired a separate status in the art in view of their different classification, restriction for examination purposes as indicated is proper.

Application/Control Number: 10/700,722 Page 3

Art Unit: 2161

Because these inventions are independent or distinct for the reasons given above and the inventions require a different field of search (see MPEP § 808.02), restriction for examination purposes as indicated is proper.

- 3. Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even thought the requirement be traversed (37 CRF 1.143).
- 4. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).
- 5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Monica M. Pyo whose telephone number is 571-272-8192. The examiner can normally be reached on Mon-Fri 6:30 3:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jeffrey Gaffin can be reached on 571-272-4146. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/700,722 Page 4

Art Unit: 2161

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Monica M Pyo Examiner Art Unit 2161

7/21/2006

Leslie Wong

**Primary Examiner**